AMENDMENTS TO THE CLAIMS (NONE)

- 1. **(Previously Presented)** A lipopeptide comprising a polypeptide conjugated to one or more lipid moieties wherein:
 - (i) said polypeptide comprises an amino acid sequence that comprises:
- (a) an amino acid sequence of a T helper cell (Th) epitope and an amino acid sequence of a B cell epitope, wherein said amino acid sequences are different; and
- (b) one or more internal lysine residues or internal lysine analog residues for covalent attachment of each of said lipid moieties via an epsilon-amino group or terminal side-chain group of said lysine or lysine analog; and
- (ii) each of said one or more lipid moieties is covalently attached to the epsilon-amino group of said one or more internal lysine residues or to the terminal side-chain group of said one or more internal lysine analog residues.
- 2. (Original) The lipopeptide of claim 1 wherein the lipid is attached to the epsilonamino group of a lysine residue.
- 3. (Previously Presented) The lipopeptide of claim 1 wherein the internal lysine residue to which the lipid moiety is attached is positioned between the Th epitope and the B cell epitope.
- 4. **(Previously Presented)** The lipopeptide of claim 1 wherein the internal lysine residue to which the lipid moiety is attached is positioned within the Th epitope.
 - 5. (Previously Presented) The lipopeptide of claim 1 comprising two lipid moieties.
- 6. (Previously Presented) The lipopeptide of claim 5 wherein a first internal lysine residue to which a first lipid moiety is attached is positioned between the Th epitope and the B cell epitope and a second internal lysine residue to which a second lipid moiety is attached is positioned within the Th epitope.

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7. (Previously Presented) The lipopeptide of claim 1 wherein the lipid moiety has a structure of General Formula (VII):

$$R_1$$
——NH——CH——COOF

 $(CH_2)_m$
 X
 $(CH_2)_n$
 $(CH_2)_n$
 R_2 ——CH

 R_3 ——CH2

wherein:

X is selected from the group consisting of sulfur, oxygen, disulfide (-S-S-), and methylene (- CH_2 -), and amino (-NH-);

m is an integer being 1 or 2;

n is an integer from 0 to 5;

R₁ is selected from the group consisting of hydrogen, carbonyl (-CO-), and R'-COwherein R' is selected from the group consisting of alkyl having 7 to 25 carbon atoms, alkenyl having 7 to 25 carbon atoms, and alkynyl having 7 to 25 carbon atoms, wherein said alkyl, alkenyl or alkynyl group is optionally substituted by a hydroxyl, amino, oxo, acyl, or cycloalkyl group;

R₂ is selected from the group consisting of R'-CO-O-, R'-O-, R'-O-CO-,

R'-NH-CO-, and R'-CO-NH-, wherein R' is selected from the group consisting of alkyl having 7 to 25 carbon atoms, alkenyl having 7 to 25 carbon atoms, and alkynyl having 7 to 25 carbon atoms, wherein said alkyl, alkenyl or alkynyl group is optionally substituted by a hydroxyl, amino, oxo, acyl, or cycloalkyl group; and

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R₃ is selected from the group consisting of R'-CO-O-, R'-O-, R'-O-CO-,

R'-NH-CO-, and R'-CO-NH-, wherein R' is selected from the group consisting of alkyl having 7 to 25 carbon atoms, alkenyl having 7 to 25 carbon atoms, and alkynyl having 7 to 25 carbon atoms, wherein said alkyl, alkenyl or alkynyl group is optionally substituted by a hydroxyl, amino, oxo, acyl, or cycloalkyl group

and wherein each of R₁, R₂ and R₃ are the same or different.

- 8. (Original) The lipopeptide of claim 7 wherein X is sulfur; m and n are both 1; R₁ is selected from the group consisting of hydrogen, and R'-CO-, wherein R' is an alkyl group having 7 to 25 carbon atoms; and R₂ and R₃ are selected from the group consisting of R'-CO-O-, R'-O-, R'-O-CO-, R'-NH-CO-, and R'-CO-NH-, wherein R' is an alkyl group having 7 to 25 carbon atoms.
- 9. (Original) The lipopeptide of claim 8 wherein R' is selected from the group consisting of: palmitoyl, myristoyl, stearoyl, lauroyl, octanoyl, and decanoyl.
- 10. (Original) The lipopeptide of claim 9 wherein R' is selected from the group consisting of: palmitoyl, stearoyl, lauroyl, and octanoyl, and decanoyl.
- 11. (Previously Presented) The lipopeptide of claim 7 wherein the lipid is contained within a lipoamino acid moiety selected from the group consisting of: Pam₂Cys, Pam₃Cys, Ste₂Cys, Lau₂Cys, and Oct₂Cys.
- 12. (Original) The lipopeptide according to claim 11 wherein the lipoamino acid moiety is selected from the group consisting of Pam₂Cys, Ste₂Cys, Lau₂Cys, and Oct₂Cys.

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13. (Original) The lipopeptide according to claim 11 wherein the lipoamino acid moiety has the structure of Formula (II):

14. **(Previously Presented)** The lipopeptide of claim 1 wherein the lipid moiety has the following General Formula (VIII):

wherein:

R₄ is selected from the group consisting of: (i) an alpha-acyl-fatty acid residue consisting of between about 7 and about 25 carbon atoms; (ii) an alpha-alkyl-beta-hydroxy-fatty acid residue; (iii) a beta-hydroxy ester of an alpha-alkyl-beta-hydroxy-fatty acid residue; and (iv) a lipoamino acid residue; and

R₅ is hydrogen or the side chain of an amino acid residue.

- 15. **(Previously Presented)** The lipopeptide of claim 1 wherein a lipid of the lipopeptide moiety is separated from a peptide moiety of the lipopeptide by a spacer.
- 16. (Original) The lipopeptide of claim 15 wherein the spacer comprises arginine, serine or 6-aminohexanoic acid.

- 17. **(Previously Presented)** The lipopeptide of claim 15 wherein the spacer consists of a serine homodimer.
- 18. (Previously Presented) The lipopeptide of claim 15 wherein the spacer consists of an arginine homodimer.
- 20. (Previously Presented) The lipopeptide of claim 15 wherein the spacer consists of 6-aminohexanoic acid.
- 21. **(Previously Presented)** The lipopeptide of claim 1 wherein the internal lysine or internal lysine analog is nested within a synthetic amino acid sequence having low immunogenicity.
- 22. (Previously Presented) The lipopeptide according of claim 1 wherein the Thelper epitope is a Thelper epitope of influenza virus haemagglutinin or a Thelper epitope of canine distemper virus F (CDV-F) protein.
- 23. (Previously Presented) The lipopeptide of claim 22 wherein the T-helper epitope of influenza virus haemagglutinin comprises an amino acid sequence set forth in SEQ ID NO: 1 or SEQ ID NO: 18.
- 24. (Previously Presented) The lipopeptide of claim 23 wherein the a T-helper epitope of influenza virus haemagglutinin comprises an amino acid sequence set forth in SEQ ID NO: 1.
- 25. (Previously Presented) The lipopeptide of claim 22 wherein the T-helper epitope of CDV-F protein comprises an amino acid sequence set forth in SEQ ID NO: 24.
- 26. (Previously Presented) The lipopeptide of claim 1 wherein the B cell epitope is from an immunogenic protein, lipoprotein, or glycoprotein of a virus.
- 27. (Previously Presented) The lipopeptide of claim 1 wherein the B cell epitope is from an immunogenic protein, lipoprotein, or glycoprotein of a prokaryotic organism.

- 28. (Original) The lipopeptide according to claim 27 wherein the B cell epitope is from the M protein of Group A streptococcus.
- 29. (Previously Presented) The lipopeptide of claim 28 wherein the B cell epitope comprises an amino acid sequence set forth in SEQ ID NO: 101.
- 30. (Previously Presented) The lipopeptide of claim 1 wherein the B cell epitope is from an immunogenic protein, lipoprotein, or glycoprotein of a eukaryotic organism.
- 31. (Original) The lipopeptide according to claim 30 wherein the eukaryotic organism is a parasite.
- 32. (Original) The lipopeptide according to claim 30 wherein the eukaryotic organism is a mammal.
- 33. (Previously Presented) The lipopeptide according to claim 32 wherein the B cell epitope is from a peptide hormone of the mammal.
- 34. (Original) The lipopeptide according to claim 33 wherein the peptide hormone is a digestive hormone or a reproductive peptide hormone.
- 35. (Original) The lipopeptide according to claim 34 wherein the digestive hormone is gastrin or pentagastrin.
- 36. (Previously Presented) The lipopeptide according to claim 35 comprising an amino acid sequence set forth in SEQ ID NO: 102 or SEQ ID NO: 113.
- 37. (Original) The lipopeptide according to claim 34 wherein the reproductive hormone is luteinising hormone-releasing hormone (LHRH) or a fragment thereof.
- 38. (Previously Presented) The lipopeptide according to of claim 37 comprising the amino acid sequence set forth in SEQ ID NO: 2 or SEQ ID NO: 3 or SEQ ID NO: 4.
- 39. (Previously Presented) The lipopeptide of claim 1 wherein the polypeptide comprises an amino acid sequence selected from the group consisting of:

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GALNNRFQIKGVELKSEHWSYGLRPG (SEQ ID NO: 5);

GALNNRFQIKGVELKSKEHWSYGLRPG (SEQ ID NO: 7);

KLIPNASLIENCTKAELKHWSYGLRPG (SEQ ID NO: 9);

KLIPNASLIENCTKAELKGLRPG (SEQ ID NO: 13);

KLIPNASLIENCTKAELHWSYGLRPG (SEQ ID NO: 103);

KLIPNASLIENCTKAELGLRPG (SEQ ID NO: 104);

KLIPNASLIENCTKAELKQAEDKVKASREAKKQVEKALEQLEDKVK (SEQ ID NO: 105);

KLIPNASLIENCTKAELKKQAEDKVKASREAKKQVEKALEQLEDKVK (SEQ ID NO: 106);

GALNNRFOIKGVELKSKOAEDKVKASREAKKOVEKALEOLEDKVK (SEO ID NO: 107);

GALNNRFOIKGVELKSKKOAEDKVKASREAKKOVEKALEOLEDKVK (SEO ID NO: 108);

KLIPNASLIENCTKAELGWMDF (SEQ ID NO: 109);

KLIPNASLIENCTKAELKGWMDF (SEQ ID NO: 110);

GALNNRFQIKGVELKSGWMDF (SEQ ID NO: 111); and

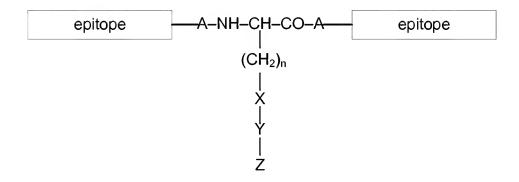
GALNNRFQIKGVELKSKGWMDF (SEQ ID NO: 112).

- 40. (Previously Presented) The lipopeptide of claim 1 capable of upregulating surface expression of at least an MHC class II molecule on immature dendritic cells (DC).
 - (Original) The lipopeptide of claim 40 wherein the DC are D1 cells. 41.

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- 42. (Previously Presented) A lipopeptide comprising a polypeptide conjugated to one or more lipid moieties wherein:
 - (i) said polypeptide comprises an amino acid sequence that comprises:
- (a) an amino acid sequence of a T helper cell (Th) epitope and an amino acid sequence of a B cell epitope, wherein said amino acid sequences are different; and
- (b) one or more internal lysine residues for covalent attachment of each of said lipid moieties via an epsilon-amino group of said one or more lysine residues;
- (ii) each of said one or more lipid moieties is covalently attached to the epsilon-amino group of said one or more internal lysine residues; and
 - (iii) said lipopeptide has the general Formula (VI):

Formula (VI):



wherein:

epitope is the T-helper epitope or B-cell epitope;

Α is either present or absent and consists of an amino acid spacer of about 1 to about 6 amino acids in length;

is an integer having a value of 1, 2, 3, or 4; n

X is a terminal side-chain group selected from the group consisting of NH, O and S;

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Y is either present of absent and consists of a spacer of about 1 to about 6 amino acids in length, wherein said spacer comprises arginine, serine or 6-aminohexanoic acid; and

- Z is a lipoamino acid moiety selected from the group consisting of Pam2Cys, Pam3Cys, Ste2Cys, Lau2Cys, and Oct2Cys.
 - 43. (Original) The lipopeptide of claim 42 wherein A is absent.
- 44. (Original) The lipopeptide of claim 43 wherein the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 2 or SEQ ID NO: 3 or SEQ ID NO: 4.
- 45. (Original) The lipopeptide of claim 43 wherein: (i) the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 101; (ii) Y is present and consists of a serine homodimer; and (iii) Z consists of Pam₂Cys.
- 46. (Previously Presented) The lipopeptide of claim 45 wherein the T helper epitope comprises an amino acid sequence set forth in SEQ ID NO: 24 and wherein the lipid moiety is attached to the polypeptide via the epsilon-amino group of a lysine residue within SEQ ID NO: 24.
- 47. (Original) The lipopeptide of claim 45 wherein the lipid moiety is attached to the polypeptide via Lys-14 of SEQ ID NO: 24.
- 48. (Original) The lipopeptide of claim 43 wherein: (i) the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 102; (ii) Y is present and consists of a serine homodimer; and (iii) Z consists of Pam₂Cys.
- 49. (Previously Presented) The lipopeptide of claim 42 capable of upregulating surface expression of at least one MHC class II molecules on immature dendritic cells (DC).
 - 50. (Original) The lipopeptide of claim 49 wherein the DC are D1 cells.
- 51. **(WITHDRAWN)** A method of producing a lipopeptide comprising: (i) producing a polypeptide comprising an amino acid sequence that comprises: (a) an amino acid sequence of

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a T helper cell (Th) epitope and an amino acid sequence of a B cell epitope, wherein said amino acid sequences are different; and (b) one or more internal lysine residues or internal lysine analog residues; and (ii) covalently attaching each of one or more lipid moieties directly or indirectly to an epsilon-amino group of said one or more internal lysine residues or to a terminal side-chain group of said one or more internal lysine analog residues so as to produce a lipopeptide having the lipid moiety attached to the epsilon amino group of said internal lysine residue or having the lipid moiety attached to the terminal side-chain group of said internal lysine analog residue.

- 52. **(WITHDRAWN)** The method of claim 51 wherein the polypeptide is synthesized by a chemical synthesis means.
- 53. (WITHDRAWN) The method of claim 51 further comprising producing the lipid moiety.
- 54. (WITHDRAWN) The method of claim 53 comprising synthesizing the lipid moiety as a lipoamino acid.
- 55. (WITHDRAWN) The method according to claim 54 further comprising adding a spacer to an amino acid moiety of the lipoamino acid.
- 56. (WITHDRAWN) The method according to claim 55 wherein the lipid comprises an arginine homodimer or a serine homodimer or a 6-aminohexanoic acid.
- 57. (WITHDRAWN) The method of claim 55 comprising adding the spacer to the lipoamino acid via a terminal carboxy group in a process that comprises performing a condensation, addition, substitution, or oxidation reaction.
- 58. **(WITHDRAWN)** The method of claim 55 wherein the spacer comprises a terminal protected amino acid residue to facilitate conjugation of the lipoamino acid to the polypeptide.
- 59. **(WITHDRAWN)** The method of claim 58 comprising de-protecting the terminal protected amino acid of the spacer and conjugating the lipoamino acid to the polypeptide.

- 60. **(WITHDRAWN)** The method of claim 54 comprising adding a spacer to a non-modified epsilon amino group of the polypeptide in a process comprising performing a nucleophilic substitution reaction.
- 61. **(WITHDRAWN)** The method of claim 60 wherein the polypeptide has an amino acid sequence comprising a single internal lysine or lysine analog residue and a blocked N-terminus.
- 62. **(WITHDRAWN)** The method according to claim 60 wherein the lipid comprises an arginine homodimer or serine homodimer or 6-aminohexanoic acid.
- 63. (ORIGINAL) A composition comprising the lipopeptide claim 1 and a pharmaceutically acceptable excipient or diluent.
- 64. (ORIGINAL) The composition of claim 63 further comprising a biologic response modifier (BRM).
- 65. (WITHDRAWN) A method of eliciting the production of antibody against an antigenic B cell epitope in a subject comprising administering the lipopeptide claim 1 to said subject for a time and under conditions sufficient to elicit the production of antibodies against said antigenic B cell epitope.
- 66. (WITHDRAWN) The method according to claim 65 wherein the lipopeptide is administered intranasally to the subject.
- 67. **(WITHDRAWN)** The method according to claim 66 wherein the lipopeptide is administered to the subject by injection.
- 68. (WITHDRAWN) The method according to claim 65 comprising eliciting the production of high titer antibodies.
- 69. (WITHDRAWN) The method according to claim 65 wherein the antigenic B cell epitope is from a pathogen and wherein said method comprises generating neutralizing antibodies against the pathogen.

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70. (WITHDRAWN) The method according to claim 65 further comprising producing a monoclonal antibody against the antigenic B cell epitope.

- 71. (WITHDRAWN) A method of inducing infertility in a subject comprising administering to said subject a lipopeptide comprising a polypeptide conjugated to one or more lipid moieties, wherein: (i) said polypeptide comprises: (a) the amino acid sequence of a T helper cell (Th) epitope and the amino acid sequence of a B cell epitope of a reproductive hormone or hormone receptor, and wherein said amino acid sequences are different; (b) one or more internal lysine residues or internal lysine analog residues for covalent attachment of each of said lipid moieties via an epsilon-amino group of said internal lysine or via a terminal side-chain group of said internal lysine analog; and (c) each of said one or more lipid moieties is covalently attached directly or indirectly to an epsilon-amino group of said one or more internal lysine residues or to a terminal side-chain group of said one or more internal lysine analog residues; and (ii) said lipopeptide is administered for a time and under conditions sufficient to elicit a humoral immune response against said antigenic B cell epitope.
- 72. (WITHDRAWN) The method of claim 71 wherein the lipopeptide is administered in combination with a pharmaceutically acceptable excipient or diluent.
- 73. (WITHDRAWN) The method of claim 71 wherein a secondary immune response is generated against the B cell epitope sufficient to prevent oogenesis, spermatogenesis, fertilization, implantation, or embryo development in the subject.
- 74. (WITHDRAWN) The method according to claim 71 wherein antibody levels are sustained for at least a single reproductive cycle of an immunized female subject.
- 75. **(WITHDRAWN)** The method according to claim 71 wherein the B cell epitope is derived from the amino acid sequence of luteinising hormone-releasing hormone (LHRH).
- 76. (WITHDRAWN) The method of claim 75 wherein the B cell epitope comprises an amino acid sequence set forth in SEQ ID NO: 2 or SEQ ID NO: 3 or SEQ ID NO: 4.
- 77. (WITHDRAWN) The method according to claim 71 wherein the T-helper epitope comprises an amino acid sequence as set forth in SEQ ID NO: 1 or SEQ ID NO: 24.

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78. (WITHDRAWN) The method according to claim 71 wherein the lipid moiety comprises a lipoamino acid selected from the group consisting of: (i) Pam.sub.2Cys; (ii) Ste.sub.2Cys; (iii) Lau.sub.2Cys; and (iv) Oct.sub.2Cys.

- 79. (WITHDRAWN) The method according to claim 71 further comprising producing the lipopeptide.
- 80. (WITHDRAWN) The method according to claim 71 further comprising determining the antibody level in a sample taken previously from the subject.
- 81. (WITHDRAWN) The method according to claim 71 further comprising determining the fecundity of the subject.
- 82. (Previously Presented) A contraceptive agent comprising the lipopeptide of claim 1 wherein the B cell epitope is from a reproductive hormone or hormone receptor.
- 83. (Original) A contraceptive agent comprising the lipopeptide according to claim 44.
- 84. (WITHDRAWN) Use of the lipopeptide according to claim 44 in the preparation of a contraceptive reagent for reducing fertility in an animal subject.
- 85. (WITHDRAWN) A method of inducing an immune response against a Group A streptococcus antigen in a subject comprising administering to said subject a lipopeptide comprising a polypeptide conjugated to one or more lipid moieties, wherein: (i) said polypeptide comprises: (a) the amino acid sequence of a T helper cell (Th) epitope and the amino acid sequence of a B cell epitope of a Group A streptococcus antigen, and wherein said amino acid sequences are different; (b) one or more internal lysine residues or internal lysine analog residues for covalent attachment of each of said lipid moieties via an epsilon-amino group of said internal lysine or via a terminal side-chain group of said internal lysine analog; and (c) each of said one or more lipid moieties is covalently attached directly or indirectly to an epsilon-amino group of said one or more internal lysine residues or to a terminal side-chain group of said one or more internal lysine analog residues; and (ii) said lipopeptide is administered for a time and under conditions sufficient to elicit a humoral immune response against said antigenic B cell epitope.

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86. (WITHDRAWN) The method of claim 85 wherein the lipopeptide is administered in combination with a pharmaceutically acceptable excipient or diluent.

- 87. (WITHDRAWN) The method of claim 85 wherein a secondary immune response is generated against the B cell epitope sufficient to prevent the spread of infection by a Group A streptococcus and/or reduce morbidity or mortality in a subject following a subsequent challenge with a Group A streptococcus.
- 88. (WITHDRAWN) The method of claim 85 wherein the B cell epitope is derived from the amino acid sequence of the M protein of Group A streptococcus.
- 89. (WITHDRAWN) The method of claim 88 wherein the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 101.
- 90. (WITHDRAWN) The method of claim 85 wherein the T-helper epitope comprises an amino acid sequence as set forth in SEQ ID NO: 1 or SEQ ID NO: 24.
- 91. (WITHDRAWN) The method of claim 85 wherein the lipid moiety comprises Pam.sub.2Cys.
- 92. (WITHDRAWN) The method of claim 85 further comprising producing the lipopeptide.
- 93. (WITHDRAWN) The method of claim 85 further comprising determining the antibody level in a sample taken previously from the subject.
- 94. **(Previously Presented)** A vaccine comprising the lipopeptide of claim 1 wherein the B cell epitope is from the M protein of Group A streptococcus.
 - 95. (Original) A vaccine comprising the lipopeptide according to claim 45.
- 96. (WITHDRAWN) Use of the lipopeptide according to claim 45 in the preparation of a contraceptive reagent for reducing fertility in an animal subject.
- 97. (WITHDRAWN) A method of inducing an immune response against a gastrin peptide in a subject comprising administering to said subject a lipopeptide comprising a

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polypeptide conjugated to one or more lipid moieties, wherein: (i) said polypeptide comprises: (a) the amino acid sequence of a T helper cell (Th) epitope and the amino acid sequence of a B cell epitope of a gastrin polypeptide antigen, and wherein said amino acid sequences are different; (b) one or more internal lysine residues or internal lysine analog residues for covalent attachment of each of said lipid moieties via an epsilon-amino group of said internal lysine or via a terminal side-chain group of said internal lysine analog; and (c) each of said one or more lipid moieties is covalently attached directly or indirectly to an epsilon-amino group of said one or more internal lysine residues or to a terminal side-chain group of said one or more internal lysine analog residues; and (ii) said lipopeptide is administered for a time and under conditions sufficient to elicit a humoral immune response against said antigenic B cell epitope.

- 98. (WITHDRAWN) The method of claim 97 wherein the lipopeptide is administered in combination with a pharmaceutically acceptable excipient or diluent.
- 99. (WITHDRAWN) The method of claim 97 wherein a secondary immune response is generated against the B cell epitope sufficient to prevent or block secretion of gastric acid in an animal in need thereof.
- 100. (WITHDRAWN) The method of claim 99 wherein the animal suffers from a condition selected from the group consisting of hypergastrinemia, Zollinger-Ellison syndrome, gastric ulceration, duodenal ulceration and gastrinoma.
- 101. (WITHDRAWN) The method of claim 97 wherein the B cell epitope is derived from the amino acid sequence of pentagastrin.
- 102. (WITHDRAWN) The method of claim 101 wherein the B cell epitope comprises the amino acid sequence set forth in SEQ ID NO: 102.
- 103. (WITHDRAWN) The method of claim 97 wherein the T-helper epitope comprises an amino acid sequence as set forth in SEQ ID NO: 24.
- 104. **(WITHDRAWN)** The method of claim 97 wherein the lipid moiety comprises Pam.sub.2Cys.

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105. (WITHDRAWN) The method of claim 97 further comprising producing the lipopeptide.

- 106. (WITHDRAWN) The method of claim 97 further comprising determining the antibody level against gastrin in a sample taken previously from the subject.
- 107. (Previously Presented) A vaccine comprising the lipopeptide of claim 1 wherein the B cell epitope is from a gastrin polypeptide.
 - 108. (Original) A vaccine comprising the lipopeptide according to claim 46.
- 109. (WITHDRAWN) Use of the lipopeptide according to claim 46 in the preparation of a contraceptive reagent for reducing fertility in an animal subject.
- 110. (WITHDRAWN) The method of claim 65 wherein the antibody comprises an immunoglobulin selected from the group consisting of IgM, IgA, and IgG.
 - 111. (WITHDRAWN) The method of claim 110 wherein the immunoglobulin is IgM.
 - 112. (WITHDRAWN) The method of claim 110 wherein the immunoglobulin is IgA.
 - 113. (WITHDRAWN) The method of claim 110 wherein the immunoglobulin is IgG.
- 114. (WITHDRAWN) The method of claim 113 wherein the IgG is selected from the group consisting of IgG1, IgG2a, IgG2b, and IgG3.